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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/991,610	11/09/2001	Eric C. Hannah	042390.P13119	7624	
7	590 11/29/2002				
Blakely, Sokoloff, Taylor & Zafman			EXAMINER		
Seventh Floor 12400 Wilshire		TRAN, MY CHAU T			
Los Angeles, C	CA 90025-1030		ART UNIT	PAPER NUMBER	
			1639	6	
			DATE MAILED: 11/29/2002	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No).	Applicant(s)			
Office Action Summary		09/991,610		HANNAH, ERIC C.			
		Examiner		Art Unit			
		My-Chau T. Tra	ın	1639			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Pennancive to communication(s) filed on						
1)∐ 2a)∐	Responsive to communication(s) filed on This action is FINAL . 2b) Th	— · is action is non-	final		•		
	,			nsecution as to the	merite is		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
•	4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
· <u> </u>	6) Claim(s) is/are rejected.						
·	Claim(s) is/are objected to.	.14!		•			
8) Claim(s) <u>1-30</u> are subject to restriction and/or election requirement. Application Papers							
· · · _	The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	e drawing(s) be he	eld in abeyance. Se	ee 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Notice of Informal P	(PTO-413) Paper No(s atent Application (PTO			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-4, drawn to a composition comprising two carbon nanotubes, classified in class 435, subclass 288.1.
 - II. Claims 5-13, drawn to a library comprising two or more probes, classified in class435, subclass 288.7.
 - III. Claims 14-20, drawn to a method of identifying probe, classified in class 436, subclass 165.
 - IV. Claims 21-26, drawn to a method of nucleic acid sequencing, classified in class436, subclass 6.
 - Claims 27-30, drawn to a method of producing carbon nanotubes, classified in class 436, subclass 72.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of Group I and Group II are unrelated and independent inventions. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions as claimed have different required components that have different functions and effects.

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The feature of each nanotubes with emission spectrum that is distinguishable from other nanotubes of Group I is not required by the claims of Group II. The feature of a combination of labeled probes and carbon nanotube of Group II is not required by the claims of Group I.

3. Inventions of Group III, Group IV, and Group V are unrelated and independent inventions. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions as claimed have different method steps that have different functions and modes of operation.

The method step of exciting the nanotubes of Group III is not required by the claims of Groups IV and V. The method step of hybridizing the probes with nucleic acid of Group IV is not required by the claims of Groups III and V. The method step of dividing the SiC layer into SiC deposits of predetermined size and shape of Group V is not required by the claims of Groups III and IV.

4. Inventions of Group I (apparatus) and Group III (process) are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process.

(MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as the method of Group IV or *in situ* hybridization. This restriction requirement is also applicable with the apparatus of Group II.

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5. Inventions of Group I (apparatus) and Group IV (process) are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process.

(MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as protein synthesis or the method of group III. This restriction requirement is also applicable with the apparatus of Group II.

- 6. Inventions of Group I (product) and Group V (process) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown:

 (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by a materially different process such as chemical vapor deposition of hydrocarbons.
- 7. Inventions of Group II (apparatus) and Group V (process) are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process.

 (MPEP § 806.05(e)). In this case the product as claimed can be made by a materially different process such as chemical vapor deposition of hydrocarbons.

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8. Because these inventions are distinct for the reasons given above and the searches required are not co-extensive thus requiring a burdensome search, restriction for examination purposes as indicated is proper. Additionally, different patentability considerations are involved for each group. For example, a patentability determination for Group II would involve a determination of the patentability of the combination of a labeled probe and carbon nanotube (independent of its use) while a patentability determination for Group V would involve a consideration of the patentability of the method of producing carbon nanotubes. These considerations are very different in nature.

- 9. This application contains claims directed to the following patentably distinct species of the claimed invention.
- 10. If applicants elect the invention of Group I (Claims 1-4), applicants are required to further elect a single specific species of the number of nanotubes of Claim 2.
- 11. If applicants elect the invention of Group II (Claims 5-13), applicants are required to further elect a single specific species from each species groups. The species groups are as follow: Group A refer to the type of probes of Claim 6 and Group B refer to the probes length of Claim 8, 12, and 13.
- 12. If applicants elect the invention of Group III (Claims 14-20), applicants are required to further elect a single specific species of ligand of Claim 20.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, and 3-4 are generic for Group I, claims 5, 7, and 9-11 are generic for Group II, and claims 14-19 are generic for Group III.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

13. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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14. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to My-Chau T. Tran whose telephone number is 703-305-6999.

The examiner is on Increased Flex Schedule and can normally be reached on Monday: 8:00-

2:30; Tuesday-Thursday: 7:30-5:00; Friday: 8:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrew J. Wang can be reached on 703-306-3217. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9306 for regular

communications and 703-872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1123.

mct

November 27, 2002

DMASHRI PONNALURI